

# PUSEAL 600

## Elastomeric, Tar Extended Polyurethane Waterproofing Membrane

### Description

**PUSEAL 600** is a liquid applied, single-component based on aliphatic polyurethane prepolymer extended with tar, which cures by reaction with atmospheric moisture to give continuous film that is rubber-like and elastic.

**PUSEAL 600** forms a permanently flexible seamless waterproofing membrane with good adhesion to a wide range of substrates. It is not affected by extremes of temperature consequently it is resistant to cracking at low and high weather temperature.

### Features & Benefits

- High Elasticity, rubber-like
- Excellent tensile strength and abrasion resistance
- Crack Bridging ability
- Excellent bonding to wide range of substrates
- Resistant to sulphates and salts
- High UV Resistant
- Excellent durability
- Easy to Repair, just needs over coating

### Uses

**PUSEAL 600** can be used for a wide range of waterproofing applications for; Roofs, Basements and Foundations, Tunnels and bridges, Terraces and Balconies, Car Decks, Plaza Decks, Planter Boxes, Retaining Walls, Internal Wet Areas (kitchens, bathrooms), Fountains and Pools, ...etc.

**PUSEAL 600** can also be used in sewage works and tanking applications in areas where aggressive ground water conditions prevail.

### Technical Properties

|                                |                                 |
|--------------------------------|---------------------------------|
| Appearance                     | Black liquid membrane           |
| Density                        | 1,300 Kg/m <sup>3</sup> approx. |
| Pot Life                       | 45 minutes                      |
| Solid content                  | >90%                            |
| Elongation                     | 600%                            |
| Tensile strength               | ≥1.4 N/mm <sup>2</sup>          |
| Adhesion to concrete           | 1.0 N/mm <sup>2</sup>           |
| Shore A hardness               | 45                              |
| Service temperature            | -5 to +80 °C                    |
| Crack bridging                 | 3 mm                            |
| Touch Dry                      | 10 hours                        |
| Complete hardening             | 7 days                          |
| Water vapor transmission       | 0.3 g/m <sup>2</sup> /hour      |
| Chemical Resistant             | Excellent                       |
| Abrasion resistance            | Excellent                       |
| Resistance to bacteria & algae | No attack                       |

All values are subject to 5-10% tolerance

### Standards Compliance:

- ASTM C 836
- ASTM D 624, D 2240 & D 412

### Application Procedures

#### Surface preparation:

New concrete surfaces should be fully cured. Substrate should be free from dust, oil, curing agent residues and other contaminants. For parapet walls, columns, pipes penetrations etc. make a 45° coving fillet at all corners using cement mortar. Apply a reinforcing pretreatment strip of PUSEAL 600 1mm thick extending 150mm on both sides of the coving to form an over flashing. Voids and honeycombs must be patched with SBI concrete repair products. Allow the patched area to cure before applying the membrane.

All metal surfaces should be made clean of paint, oils, rust and other contaminants. Abrade to expose bright metal then wipe clean the surface prior to priming.

Normally good quality concrete substrates do not require priming. However porous substrates need

priming, apply one coat of PUSEAL 600 diluted with 20% Solvent 20 and use as primer. Primer coat should be fully dry before further topcoat application.

## **Expansion Joints:**

Expansion and movement joints should be sealed with PU or PS Sealant. When cured, a layer strip of PUSEAL 600 in 200mm wide should be applied centered over all sealed joints. While the membrane is still wet cover with a correct cut stripe of fiber mesh and press it to soak. Saturate the fiber mesh with another coat of PUSEAL 600 until it is fully covered. Allow curing before applying the waterproofing membrane

## **Mixing Instructions:**

**PUSEAL 600** is a single component ready to use. stir the content of the pail before use to mix any settled material.

## **Application Instructions:**

**PUSEAL 600** should be applied by brush, roller, trowel or airless spray in two coats to achieve total film thickness of 1.0-1.5mm. The second coat should be applied at right angle to the first one once the first coat is completely dry (24- 48 hours). **PUSEAL 600** membrane must be cured for a minimum of 48 hours before placing protection.

To give additional mechanical strength either at joints or over the whole surface, embed a layer of fiber glass tape or sheet between the two coats.

Extended periods of exposure will require the provision of membrane protection from following trades. To eliminate possible surface damage or contamination it is recommended to apply screed mortar bedding, tiling or finished flooring installations should be carried out as soon as possible after full cure of membrane is established.

For flooring; do not apply tile adhesives to **PUSEAL 600** membrane whilst the membrane is still uncured. To provide a good key with the membrane, spread on the final wet coat of **PUSEAL 600** with sufficient clean silica sand (Quartz No.2).

## **Coverage**

**PUSEAL 600** can covers 1- 1.1 Liter per m<sup>2</sup> to achieve dry film thickness of 1 mm.

## **Packaging**

**PUSEAL 600** is available in 20kg Pail.

## **Storage**

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

## **Health and Safety**

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

## **Quality & Care**

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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